

5/24/07

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

Submitted on May 24, 2007

Sheet

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of

1

**Complete if Known**

Application No.

09/927,315

Filing Date

August 10, 2001

First Named Inventor

Charles S. Zuker

Art Unit

1649

Examiner Name

Michael T. Brannock

Attorney Docket Number

23540-10616/US

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document No. Number – Kind Code <sup>2</sup> (if known)	Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		US-		
		US-		
		US-		

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> – Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T <sup>6</sup>

**OTHER REFERENCES – NON-PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>6</sup>
	C1	Written Opinion, PCT/US02/21269, February 15, 2007, 4 pages.	

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SignatureDate  
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10/16/07

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.


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



<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.







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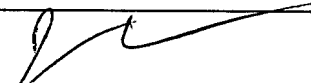
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Substitute for form 1449A/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		Application No.	09/927,315
		Filing Date	August 10, 2001
		First Named Inventor	Charles S. Zuker
		Art Unit	1649
		Examiner Name	Michael T. Brannock
Filed on: August 22, 2007	Attorney Docket Number	23540-10616 (2001-F10-2)	
Sheet	1	of	2

U.S. PATENT DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Document No. Number – Kind Code <sup>2</sup> (if known)	Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
	A1	US-2003/0008344 A1	01-09-2003	Adler et al.
	A2	US-2002/0160424 A1	10-31-2002	Adler et al.

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> – Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T <sup>6</sup>
	B1	EP 1270724 A2	01-02-2003	Nat. Inst. Of Advanced Ind. Science	
	B2	WO 03/001876 A2	01-09-2003	Senomyx, Inc.	
	B3	WO 02/064631 A2	08-22-2002	Senomyx, Inc.	
	B4	WO 01/66563 A2	09-13-2001	Senomyx, Inc.	
	B5	WO 01/64882 A2	09-07-2001	Millennium Pharm. Inc.	
	B6	WO 01/83749 A2	11-08-2001	Warner Lambert Co.	

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Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			T <sup>6</sup>
	C1	ADLER, et al., "A Novel Family of Mammalian Taste Receptors," Cell, March 17, 2000, vol. 100, pp. 693 – 702, Cell Press.			
	C2	CHANDRASHEKAR, et al., "T2Rs Function as Bitter Taste Receptors," Cell, vol. 100, March 17, 2000, pp. 703 – 711, Cell Press.			
	C3	Communication Pursuant to Article 96(2) EPC, EP 04794142.2, May 15, 2007, 4 pages.			
	C4	HOON, M. A., et al., "Putative Mammalian Taste Receptors: A Class of Taste-Specific GPCRs with Distant Topographic Selectivity," Cell, February 19, 1999, vol. 96, pp. 541 – 551, Cell Press.			
	C5	International Search Report and Written Opinion, PCT/US04/32678, February 1, 2006, 8 pages.			
	C6	KITAGAWA, M., et al., "Molecular Genetic Identification of a Candidate Receptor Gene for Sweet Taste," Biochemical and Biophysical Research Communications, April 27, 2001, pp. 236 – 242, vol., 283, no., 1.			
	C7	LI, X. et al., "High-Resolution Genetic Mapping of the Saccharin Preference Locus (Sac) and the Putative Sweet Taste Receptor (T1R1) Gene (Gpr70) to Mouse Distal Chromosome 4," Mammalian Genome,			

Examiner Signature		Date Considered	10/16/07
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23540/10616/DOCS/1790245.1

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C-2	C7	January 2001, pp. 13-16, Vol. 12, No. 1.	
2	C8	LI, X., et al., "Human Receptors for Sweet and Umami Taste," PNAS, April 2, 2002, vol. 99, no. 7, pp. 4692 – 4669.	
2	C9	MAX, et al., "Tas1r3, Encoding a New Candidate Taste Receptor, is Allelic to the Sweet Responsiveness Locus Sac," Nature Genetics, May 2001, vol. 28, pp. 58 – 63, Nature Publishing Group.	
2	C10	MONTMAYEUR, et al., "A Candidate Taste Receptor Gene Near a Sweet Taste Locus," Nature Neuroscience, May 2001, vol. 4, no. 5, pp. 492 – 498, Nature Publishing Group.	
2	C11	NELSON, et al., "An Amino-Acid Taste Receptor," Nature, Advanced Online Publication (DOI 10.1038/nature726), February 24, 2002, 4 pages.	
2	C12	NELSON, et al., "Mammalian Sweet Taste Receptors," Cell, August 10, 2001, vol. 106, pp. 381 – 390, Cell Press.	
2	C13	SAINZ, E. et al., "Identification of a Novel Member of the T1R Family of Putative Taste Receptors," Journal of Neurochemistry, May 2001, pp. 896-903, Vol. 77, No. 3.	
2	C14	Supplementary European Search Report, EP 02749804, July 11, 2007, 8 pages.	

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PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0851-0031

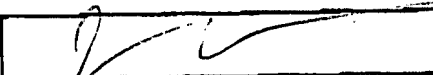
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>			Application No.	09/927,315	
			Filing Date	August 10, 2001	
			First Named Inventor	Zuker et al.	
			Art Unit	1646	
			Examiner Name	Michael T. Brannock, Ph.D.	
Sheet	1	of	1	Attorney Docket Number	23540-10616 (2001-510-1)

U.S. PATENT DOCUMENTS				
Examiner Initials*	Cite No.†	Document No. Number - Kind Code* (if known)	Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
h	A1	6,955,887	10/18/2005	Adler

OTHER REFERENCES - NON-PATENT LITERATURE DOCUMENTS					
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h m	C1	JIANG ET AL., "Lactisole Interacts with the Transmembrane Domains of Human T1R3 to Inhibit Sweet Taste", <i>The Journal of Biological Chemistry</i> , 280(15):15238-15248. (2005)			
	C2	JIANG ET AL., (2005b), "Identification of Cyclamate Interaction Site Within the Transmembrane Domain of the Human Sweet Taste Receptor Subunit T1R3", <i>The Journal of Biological Chemistry</i> , 280(40): 34296-34305.			

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